Foam Board Sheathing

Energy-efficient foamboard sheathing panels are designed as an alternative to conventional plywood and softboard sheathing systems. The higher the R-Value, the greater the insulating power.

	Approximate R-Factor (R-Value)	Tongue & Groove	Density (Lbs. Per Ft.^{3})	Panel Sizes
R-3	Polystyrene 3/4" molded	Yes	1.0 to 1.5	2x8, 13 1/2x4, 4x8, 4x9, 4x10, 4x12
R-4	Polystyrene 1" molded	Yes	1.0 to 1.5	2x8, 4x8, 4x9, 4x10, 4x12
R-4	Extruded Polystyrene	Yes	2.1	2x8, 4x8, 4x9
R-3.6	Polyurethane or Isocyanurates 1/2" with foil	No	2.0	2x8, 4x8, 4x9
R-5	Isocyanurates 1" extruded	Yes	2.1	2x8, 4x8, 4x9, 4x12
R-5	Polyurethane or Isocyanurates 5/8"	No	2.0	4x8, 4x9, 4x12
R-5.6	Polyurethane or Isocyanurates 3/4" with foil	No	2.0	4x8, 4x9, 4x10, 4x12
R-7	Polyurethane or Isocyanurates 7/8" with foil	No	2.0	4x8, 4x9, 4x10, 4x12
R-7.2	Polyurethane or Isocyanurates 1" with foil	No	2.0	4x8, 4x9, 4x10, 4x12

Caulks & Sealants

	Siliconized Acrylic	Silicone	Butyl Rubber	Polysulfide	Polyurethane	Latex	Silicone Latex	Acrylic Latex
Flexibility	± 10% to 20%	± 25% to 50%	± 10%	± 25%	± 25%	± 5%	± 25%	± 10% to 20%
Adhesion	Good	Excellent	Good	Good, designed for immersion.	Excellent	Fair	Excellent	Good to porous surfaces, poor to nonporous ones.
Paintability	Excellent	Poor	Poor	Good	Good	Good	Good	Excellent
Years Service	Indoors, 20; outdoors, 10 to 15 in low-stress situations.	Minimum 20	10	15 if protected from sun.	15 if painted or protected from sun.	5 to 10	15	Indoors, 20; outdoors, 10 to 15
Clean Up	Water	Solvent	Solvent	Solvent	Solvent	Water	Water	Water
Shrinkage	20%	<2%	1% to 20%	<5%	<5%	10% to 20%	10%	Clear, 20%; pigmented, 10%
UV Resistance	Good	Excellent	Good	Poor	Low; better if painted. White lasts longest in sun.	Fair	Excellent	Good
Best Use	Interior, paintable surfaces.	Outdoors, bathrooms, kitchens.	Gutter joints and metal-to-masonry joints.	Outdoors, where there is moderate movement.	Joints subject to abrasion.	Low-movement interior joints.	General purpose, indoors/out.	Patching interior cracks, joints and small holes.